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U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION **TRANSMITTAL**

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UTILITY PATENT APPLICATION TRANSMITTAL	Attorney Docket No.	100303.P1855
	First Inventor	Duncan McRae
	Title	Method and Apparatus for an Output Buffer with Dynamic Impedance Control
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	EU232895558US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450		
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages32] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets9] 5. Oath or Declaration [Total Sheets9] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. Power of (when there is an assignee) Attorney 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122		
6. Application Data Sheet. See 37 CFR 1.76	(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Certificate of Express Mail PQ to Addressee with acopy of above Return Receipt Postcard		
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.			
19. CORRESPONI	DENCE ADDRESS		
Customer Number: 40418	OR Correspondence address below		
Name			
Address			
City	State Zip Code		
-	elephone Fax		
Name (Print/Type) Alan Heimlich	Registration No. (Attorney/Agent) 48808		
Signature Alan Mila	Date 1/27/04		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

121	1420.00	
(3)	1420.00	

Compl te if Kn wn		
Application Number		
Filing Date	01/27/04	
First Named Inventor	Duncan McRae	
Examiner Name		
Art Unit		
Attorney Docket No.	100303.P1855	

METHOD OF PAYMENT (check all that apply)			FE	CALCULATION (continued)	
☐ Check ☑ Credit card ☐ Money ☐ Other ☐ None	3. ADDI			S	
Deposit Account:	Large Entit		I Entity		
Deposit Account	Fee Fee Code (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Number	1051 130	2051	65	Surcharge - late filing fee or oath	
Deposit Account	1052 50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check all that apply)	1053 130	1053	130	Non-English specification	
Charge fee(s) indicated below	1812 2,52	0 1812	2,520	For filing a request for ex parte reexamination	ļi
Charge any additional fee(s) or any underpayment of fee(s)	1804 92	0* 1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,84	0° 1805	1,840*	Requesting publication of SIR after Examiner action	
	1251 11	0 2251	55	Extension for reply within first month	
FEE CALCULATION	1252 42	0 2252	210	Extension for reply within second month	
1. BASIC FILING FEE Large Entity Small Entity	1253 95	0 2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid	1254 1,48	0 2254	740	Extension for reply within fourth month	
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,01	0 2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401 33	0 240	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402 33	0 2402	2 165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403 29	0 2403	3 145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,51	0 1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452 11	0 2452	2 55	Petition to revive - unavoidable	
	1453 1,33	0 2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,33	0 2501	665	Utility issue fee (or reissue)	
Total Claims 30 20* = 10 x 18 = 180	1502 48	0 2502	2 240	Design issue fee	
Indopendent	1503 64	0 2503	320	Plant issue fee	
Nultiple Dependent 8 -3** = 5	1460 13	0 1460	130	Petitions to the Commissioner	
	1807 5	0 180	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806 18	0 180		Submission of Information Disclosure Stmt	\vdash
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021 4	0 802	1 40	Recording each patent assignment per property (times number of properties)	40
1201 86 2201 43 Independent claims in excess of 3	1809 77	0 280	9 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810 77	0 , 281	0 385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801 77	0 2801	385		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 90			•	
C40 00	Other fee	specify)			
SUBTOTAL (2) ((\$) 610.00 **or number previously paid, if greater; For Reissues, see above	*Reduced	by Basic	Filing F	ee Paid SUBTOTAL (3) (\$) 40.0	
The state of providing part, if greater, i or i telegores, see above	•				

(Complete (if applicable)) SUBMITTED BY Registration No. Name (Print/Type) Alan Heimlich 48808 Telephone 408 253-3860 Date 01/27/04 Signature

WARNING: Information on thi form may become public. Credit card information hould not be included in this form. Provide credit card information and authorization on PTO-2038.

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

Telephone number

First I	Named Inventor	Duncan McRae
Title	Method and App Impedance Conf	paratus for an Output Buffer with Dynamic trol
Attorr	ney Docket Numb	100303.P1855

Typed or printed name

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Date

Alan Heimlich, Esq.

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonm nt of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

	Carren .
The following has been received by the USPTO on the date stamped herein.	A 16
RECEIVED	
Express Mail PO to Addressee EU232895558US Date Mailed: 01/27/2004	1 = 1
Application Filing Date: 01/27/2004 Docket No: 100303 P1855	3.2
CONTENTS	
Application Titled: Method and Apparatus for an Output Buffer with Dynamic Impedance Control	83 ²² 1.7
First Named Inventor Duncan McRae	2 Table 1
Declaration (PTO/SB/01)) = 1 pg	30%
Recordation/Form (PTO-1595) 1pg and Assignment Form (former PTO/SB/15) 2 pgs	A. 4. 14
Patent Transmittal Form (PTO/SB/05) - 1 pg	T.
IDS = 1 pages total: 3 Patent References (PTO/SB/08A) = 1 pgs	
Fee Transmittal Form (PTO/SB/17) - 1 pg	
Credit Card Payment Form (PTO-2038) Total payment \$ 1420.00 on CC 2715	11-2
Application Data Sheet (ADS)	
Application with ADS = 32 pgs	200
Drawings = 9 sheets totaling 9 Figures	
Power of Attorney (PTO/SB/81) - 2 pgs	
This return receipt postcard = 1 postcard	
Certificate of Express Mail PO to Addressee with a copy of this return receipt postcard —1 pg	11/2

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Alan Heimlich

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